

ABSTRACT OF THE DISCLOSURE

A method for reducing a signal-to-noise ratio requirement in a time division multiple access (TDMA) link of a mobile network. The network includes a first node and a second node. The method includes receiving at the first node, an initial TDMA signal burst transmitted from the second node, and determining link state variables, thereby synchronizing the first node to the TDMA signal burst. The method further includes tracking the link state variables between the initial TDMA signal burst and subsequent receptions of TDMA signal bursts from the second node at the first node.